TEAC®

SERVICE MANUAL

P-717/P-515

Direct-Drive Turntable

5704018900

1 SPECIFICATIONS

P-717

Type Fully-automatic turntable system
Drive System Direct-drive system
Motor Quartz-phase locked direct drive motor
Turntable Aluminium diecast 308 mm
Speed 33-1/3 and 45 rpm
Wow and Flutter 0.035% WRMS
Signal-to-Noise Ratio 68 dB (DIN-B)
Tonearm
- **Type** Low-mass sensitive straight tonearm
- **Effective Length** 222 mm
- **Offset angle** 23.7°
- **Overhang** 16.8 mm
- **Stylus Pressure Range** 0 – 2.5 g
- **Usable Cartridge Weight** 4 – 6.5 g
- **Head Shell** Plastic

***Cartridge**
- **Type** MM Type
- **Frequency Response** 20 Hz – 20,000 Hz
- **Output Voltage** 3 mV
- **Appropriate Stylus Pressure** 2.0 g
- **Channel Separation** 18 dB at 1 kHz
- **Stylus** 0.6 mil diamond
- **Load Impedance** 47 k ohms
- **Cartridge Weight** 4.6 g

Power Requirements
- 110 – 120/220 – 240 V, AC 50/60 Hz
- (General Export Model)
- 220 V, AC 50 Hz (Europe)
- 240 V, AC 50 Hz (U.K./Australia)

Power Consumption 6 W
Dimensions (W x H x D)
- 416 x 116 x 362 mm (16-3/8" x 4-9/16" x 14-1/4")

Weight 5.6 kg (12-3/8" lbs) net

*U.K. Models are supplied without cartridges.

P-515

Type Semi-automatic turntable system
Drive System Direct-drive system
Motor DC servo motor
Turntable Aluminium diecast 308 mm
Speed 33-1/3 and 45 rpm
Wow and Flutter 0.055% WRMS
Signal-to-Noise Ratio 68 dB (DIN-B)
Tonearm
- **Type** Low-mass sensitive straight tonearm
- **Effective Length** 222 mm
- **Offset angle** 23.7°
- **Overhang** 16.8 mm
- **Stylus Pressure Range** 0 – 2.5 g
- **Usable Cartridge Weight** 4 – 6.5 g
- **Head Shell** Plastic

***Cartridge**
- **Type** MM Type
- **Frequency Response** 20 Hz – 20,000 Hz
- **Output Voltage** 3 mV
- **Appropriate Stylus Pressure** 2.0 g
- **Channel Separation** 18 dB at 1 kHz
- **Stylus** 0.6 mil diamond
- **Load Impedance** 47 k ohms
- **Cartridge Weight** 4.6 g

Power Requirements
- 110 – 120/220 – 240 V, AC 50/60 Hz
- (General Export Model)
- 220 V, AC 50 Hz (Europe)
- 240 V, AC 50 Hz (U.K./Australia)

Power Consumption 6 W
Dimensions (W x H x D)
- 416 x 116 x 362 mm (16-3/8" x 4-9/16" x 14-1/4")

Weight 5.0 kg (11 lbs) net

- Improvements may result in specifications or features changing without notice.
- Photos and illustrations may differ slightly from production models.

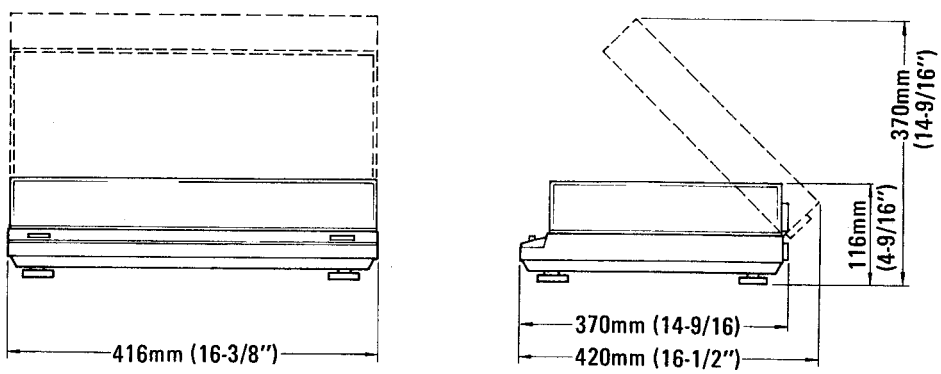


Fig. 1-1 Dimensions

2 PARTS LOCATION

P-717

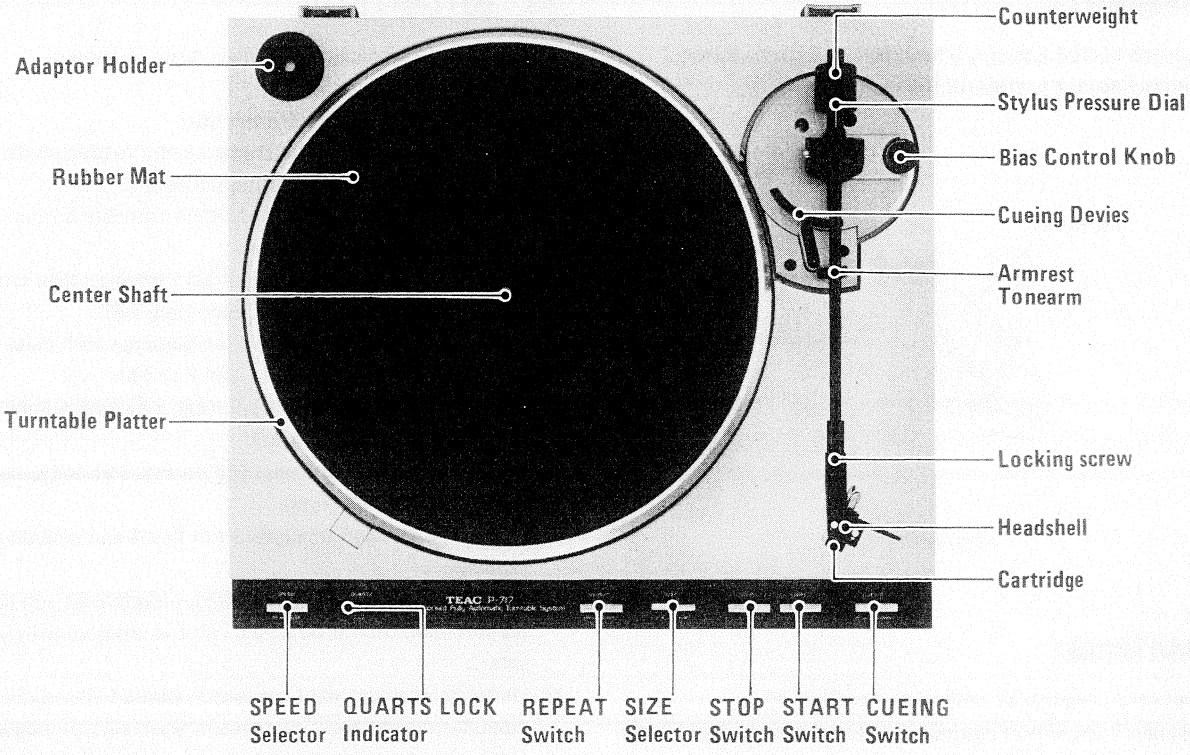


Fig. 2-1

P-515

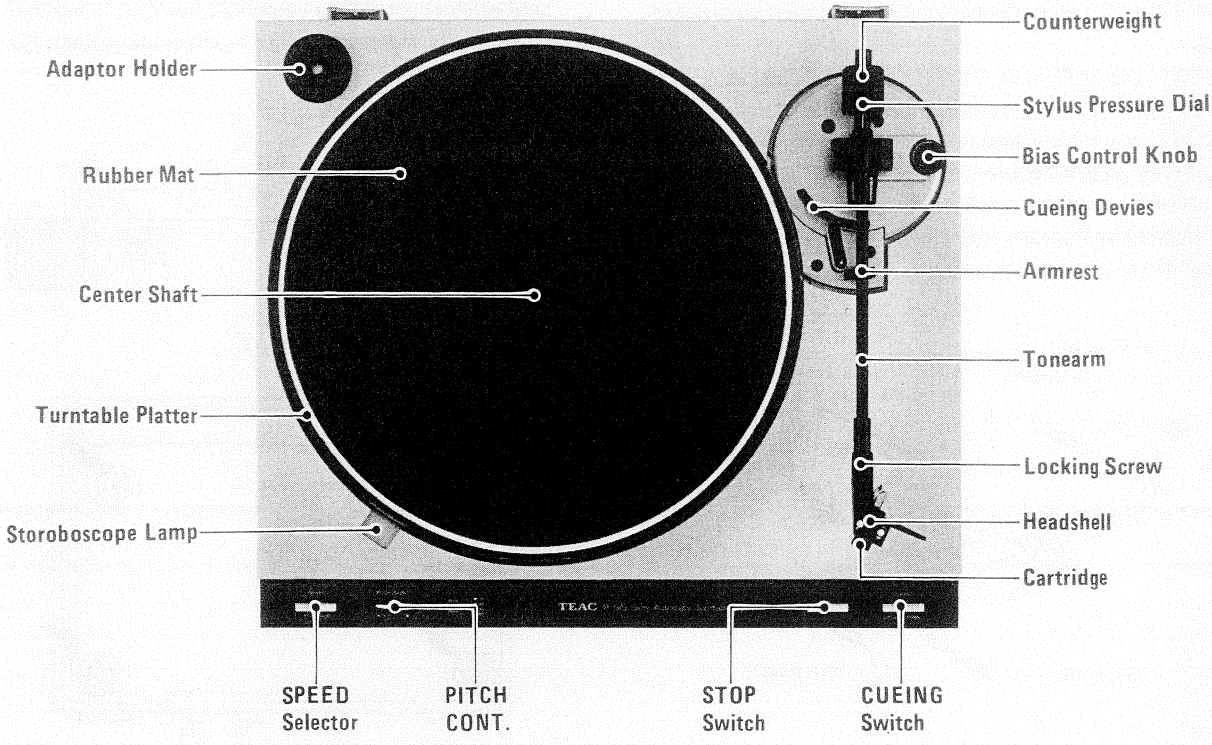


Fig. 2-2

3 DISASSEMBLY INSTRUCTIONS

3-1. HEADSHELL

1. Rotate the locking nut on the headshell counterclockwise.
2. Gently remove the headshell from the tonearm.

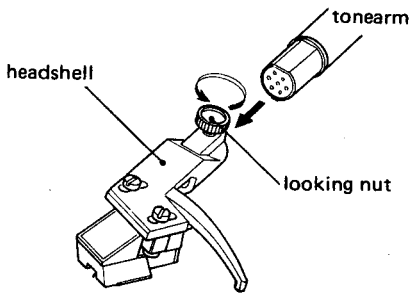


Fig. 3-1

3-2. CARTRIDGE

1. Remove the headshell as indicated in section 3-1.
2. Disconnect the connecting tips of the four headshell lead wires from the cartridge output pins.
3. Unscrew the two cartridge mounting screws. Remove the cartridge from the headshell.
4. Temporarily attach the new cartridge to the headshell by lightly fastening the two cartridge mounting screws.
5. Attach the four connecting wires to the cartridge output pins. Refer to Fig. 3-2 when remounting the cartridge onto the headshell.
6. Slide the headshell onto the front end of the tonearm, then gently push it in the direction opposite to that of the arrow in Fig. 3-1. Rotate the locking nut clockwise and tighten it firmly.
7. Adjust the overhang as indicated in section 4-1, then secure the two cartridge mounting screws. Make sure that the cartridge is not tilted away from the center line of the headshell.
8. Fasten the tonearm to the armrest.

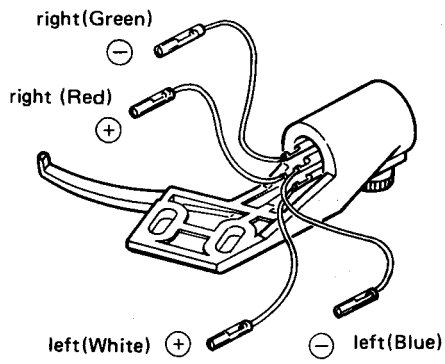


Fig. 3-2

3-3. BOTTOM PLATE

Remove the Cabinet from the Bottom plate as follows:

1. Remove the dust cover.
2. Fasten the tonearm to the arm rest.
3. Remove the turntable platter mat and turntable platter.
4. Remove the headshell and counterweight.
5. Place the unit on a suitable bench with the bottom plate up ward as described in Fig. 3-3.
6. Loosen the four screws which hold the legs; then remove the legs, spring mounting and cushion (Fig. 3-4).
7. Reverse the unit and remove the bushing which holds the wire shield ass'y to the cabinet (Ⓐ in Fig. 3-5).
8. Loosen the two screws (Ⓑ in Fig. 3-5) which hold the arm rest and remove the arm rest.
9. Remove the two stop rings (Ⓒ in Fig. 3-5) and spring (Ⓓ) which hold the three rods.
10. Place the tonearm as described in Fig. 4 and carefully lift the cabinet.
11. When the cabinet is slightly lifted, unfasten the rod under the support arm from the base pick up and unfasten the wire shield ass'y.
12. Move the cabinet right-backward (viewing from the front) so that the weight shaft of tonearm (rear part of tonearm: the part which counterweight has been mounted) positions under the cabinet through the small opening of the cabinet, and move the cabinet forward (Fig. 3-6).
13. The cabinet cannot be completely removed from the mechanism at this step. Stand the cabinet as described in Fig. 3-7, and remove the following connections:
    Lead-wire of micro SW to power PC board (A in Fig. 3-7).
    Connector of motor lead-wire to servo motor Cont. PC board (B in Fig. 3-7).

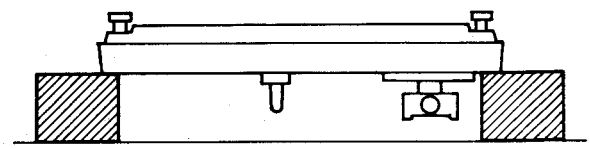


Fig. 3-3

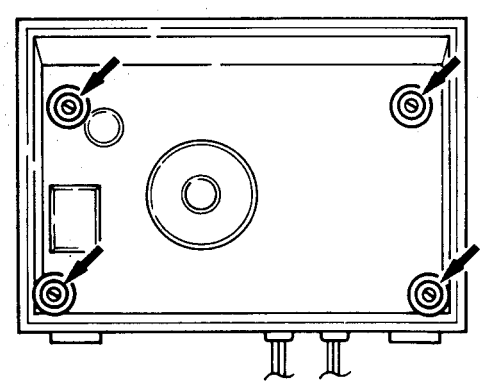


Fig. 3-4

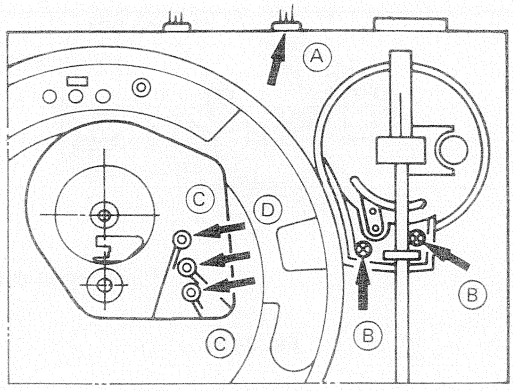


Fig. 3-5

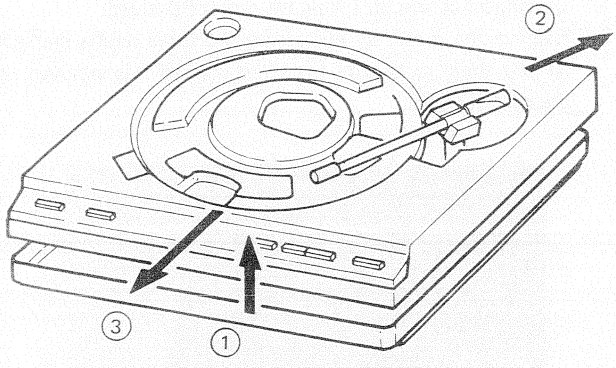


Fig. 3-6

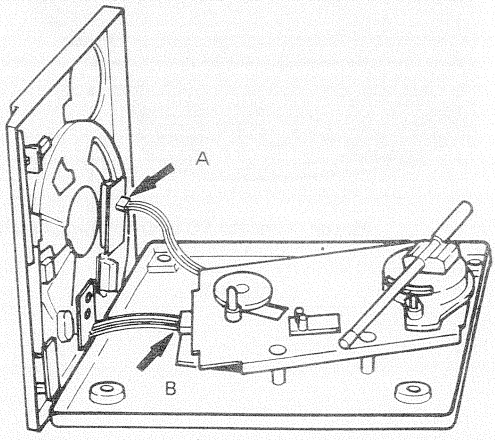


Fig. 3-7

3-4. TONEARM (P-717)

1. Unsolder the pickup lead wires from the output PC board.
2. Remove the seesaw arm by unscrewing screw D.
3. Loosen the two hex socket screws and remove the IFC spring.
4. Remove the tonearm plate ass'y from the tonearm tube, then unscrew the hex socket screws.
5. The tonearm can be removed after the hex nut (12 mm) and the crescent ring is removed from the tonearm tube.

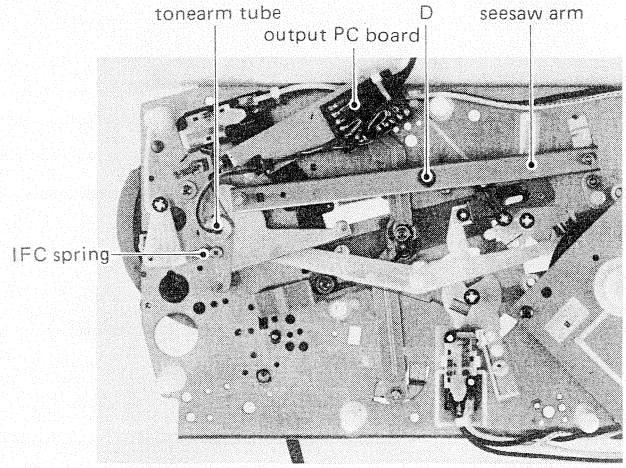


Fig. 3-8

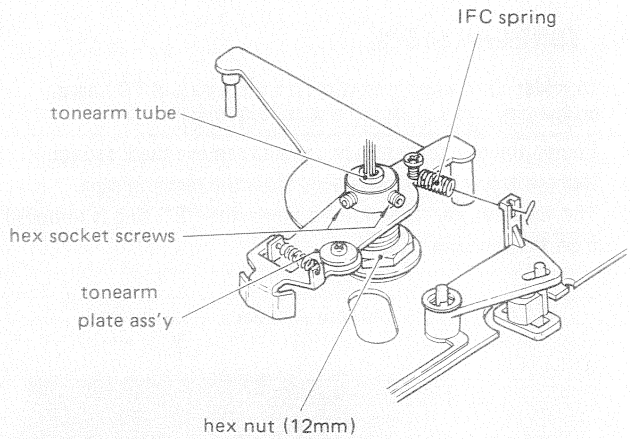


Fig. 3-9

NOTE: When replacing the tonearm, follow the adjustment procedures below while referring to Fig. 3-10:

1. Lock the tonearm to the armrest.
2. Adjust the tonearm plate ass'y so that pin A is centered directly over line B.
3. Slightly tighten either hex socket screw.
4. Adjust the auto lead-in and auto return operations and the frictional shaft height (refer to sections 4-5, 4-6 and 4-10).
5. After these adjustments, securely tighten both hex socket screws.

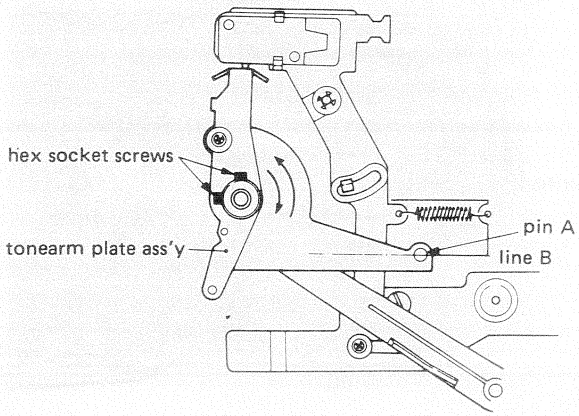


Fig. 3-10

3-5. TONEARM (P-515)

1. Unsolder the pickup lead wires from the output PC board.
2. Remove the pickup thrust plate (unscrew G).
3. Loosen the hex socket screw (H) and remove the 2 springs.
4. Remove the tonearm plate ass'y from the tonearm pipe.
5. The tonearm can be removed when the "E" ring is removed from the tonearm pipe.

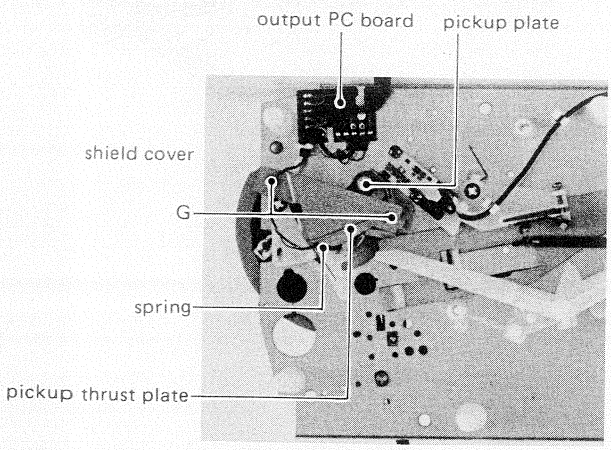


Fig. 3-11

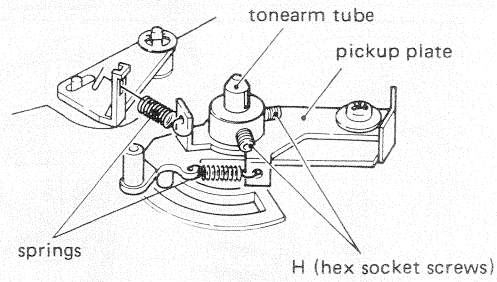


Fig. 3-12

3-6. MOTOR

1. Disconnect connector I from the motor PC board.
2. Remove the motor by unscrewing the three screws marked J. At this time, make sure the screw marked * is removed with the collar (P-515).

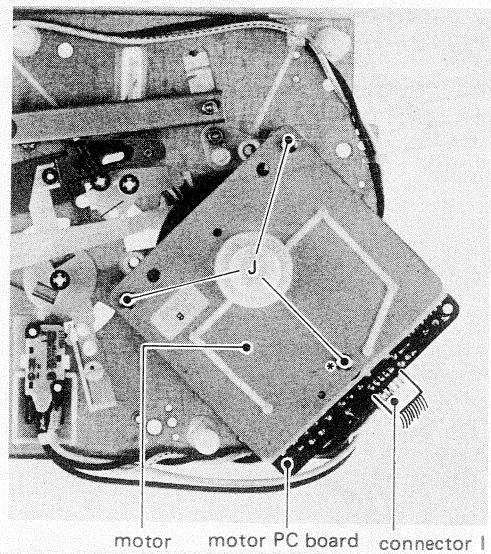


Fig. 3-13

4 ADJUSTMENTS

4-1. STYLUS OVERHANG

The overhang of the tonearm should be 16.8 mm as shown in Fig. 4-2. On models supplied with the cartridge attached to the headshell, the overhang has already been correctly adjusted at the factory.

1. Fit the overhang gauge supplied with the P717/P515 to the headshell as shown in Fig. 4-1.
2. Loosen the headshell screws and adjust the position of the cartridge so that the stylus tip is aligned with point Ⓐ .
3. After positioning, be sure that the cartridge is parallel to the sides of the headshell before retightening the screws.

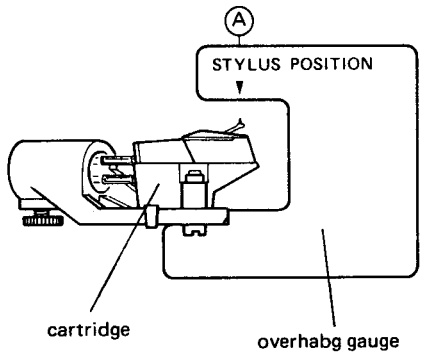


Fig. 4-1

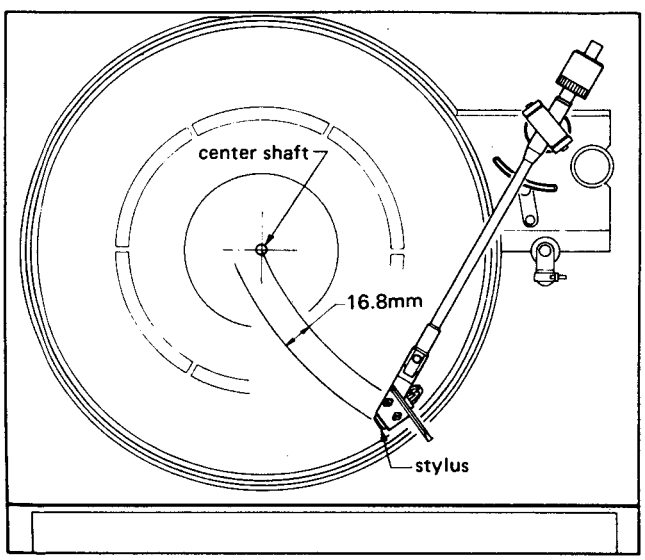


Fig. 4-2

4-2. STYLUS PRESSURE AND ANTI-SKATE BIAS

1. Remove the plastic stylus guard and release the tonearm lock.
2. Set the bias control knob to 0.
3. Rotate the turntable platter clockwise a few times by hand to make sure that the autoreturn mechanism is disengaged.
4. Bring the tonearm to a position which is midway between the armrest and the turntable platter.
5. Set the CUEING control in the DOWN position.
6. Lightly holding the headshell finger lever, screw the counterweight clockwise or counterclockwise until the tonearm is in perfect horizontal balance. Zero-gram stylus pressure is obtained in this balanced condition.
7. Return the tonearm to the armrest and lock it in place.
8. Without turning the counterweigth, turn the tracking force scale ring so that the "0" is aligned with the white reference mark on the rear of the tonearm.
9. Numerals shown on the scale ring indicate the stylus pressure in grams. After establishing the "zero refernece point", turn the counterweight unitl the stylus pressure reading corresponds to the cartridge manufacturer's recommendation.
10. Turn the bias control knob to the setting which corresponds to the stylus pressure to obtain the correct anti-skate bias.

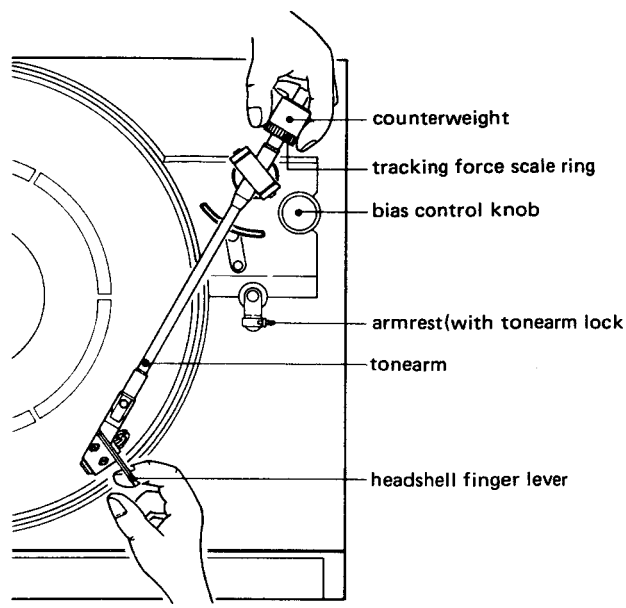


Fig. 4-3

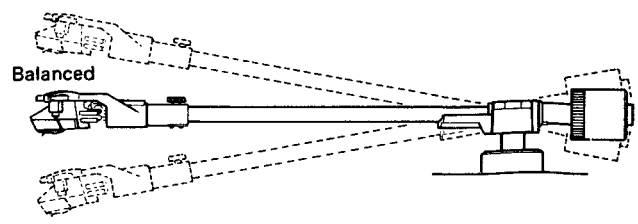


Fig. 4-4

4-3. STYLUS HEIGHT

4-3-1. CUEING Control in DOWN Position

1. Make sure that the power is off and that the CUEING control is in the DOWN position.
2. Place a record on the turntable.
3. Place the tonearm on the record (P-515). For the P-717, press the START switch.
4. Manually turn the turntable slowly clockwise so that the tonearm lifts and returns halfway to the armrest, then stop the turntable.
5. At this point, the stylus should be 6 to 10 mm above the record. If it is not, adjust screw A on the arm lifter.

4-3-2. CUEING Control in UP Position

1. Make sure that the power is off and that the CUEING control is in the UP position.
2. Place a record on the turntable and set the tonearm over the record.
3. At this point, the stylus should be 6 to 10 mm above the record. If it is not, adjust screw B on the arm lifter.

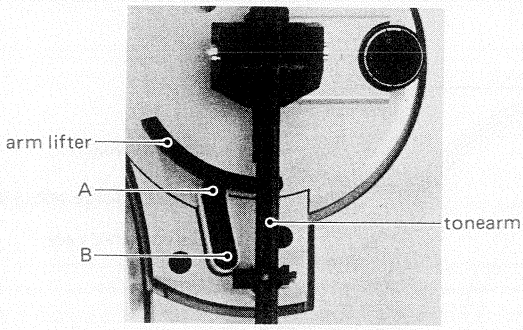


Fig. 4-5

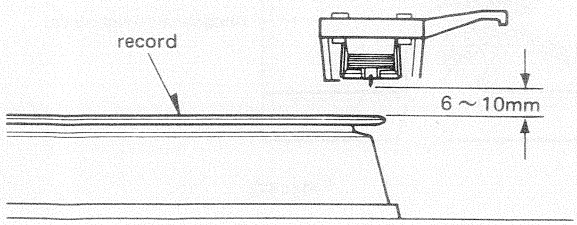
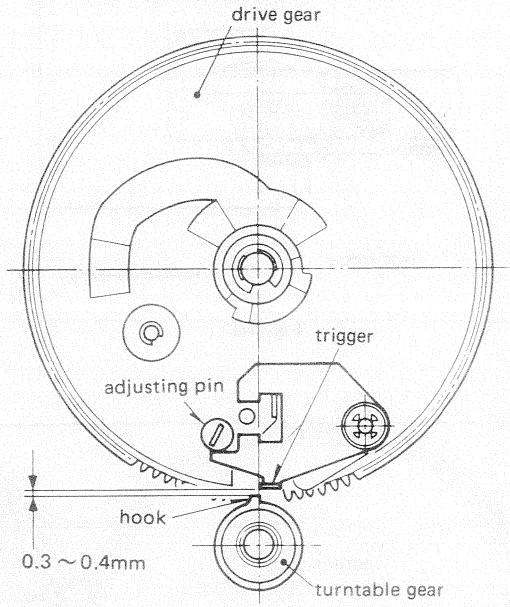


Fig. 4-6

4-4 TURNTABLE GEAR AND TRIGGER POSITION

NOTES: 1. This adjustment must be made whenever the motor is replaced.
2. Though the shape of relevant parts differs between the P-717 and the P-515, the adjustment procedure is the same.

1. Remove the rubber mat and turntable platter.
2. There should be a clearance of 0.3 to 0.4 mm between the hook on the turntable gear and the trigger on the drive gear.
3. If the clearance is not as specified, turn the adjustment pin until the proper clearance is obtained.



The illustration shows the P-717

Fig. 4-7

4-5. AUTO LEAD-IN (P-717)

1. Place a record on the turntable and press the START switch.
2. If the tonearm is not automatically brought to the lead-in groove and lowered to begin play (for either 17 cm or 30 cm records), turn the appropriate lead-in adjustment pin until proper operation is obtained.

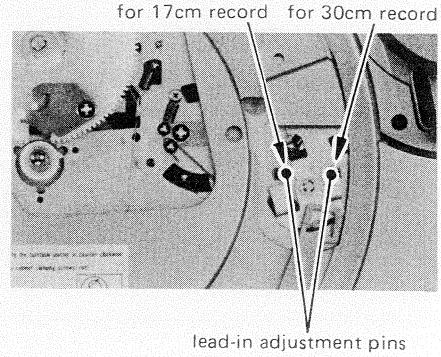


Fig. 4-8

4-6. AUTO RETURN

NOTE: For the P-717, this adjustment should be made after the auto lead-in adjustment has been completed.

1. With the P-717 (only), set the REPEAT switch to OFF.
2. Place a record on the turntable and play it.
3. If the tonearm does not automatically return to the armrest at the end of the record, or if it returns before the record has ended, turn the return adjuster until proper operation is obtained (Fig. 4-9, Fig. 4-10).

P-717

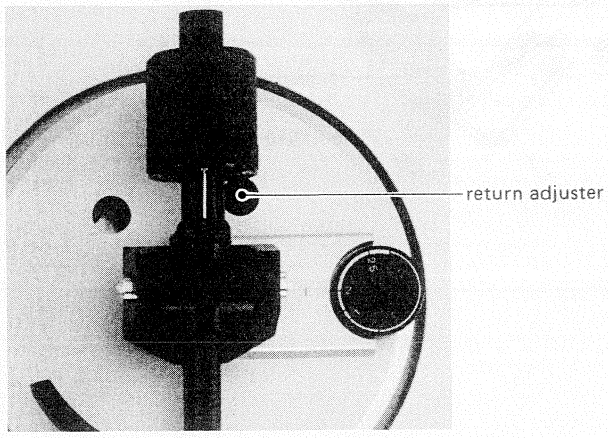


Fig. 4-9

P-515

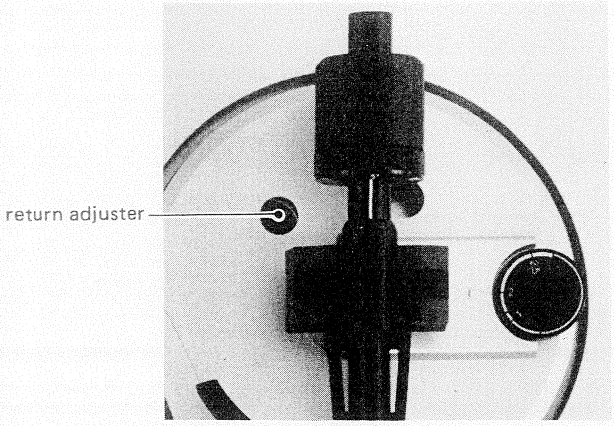


Fig. 4-10

4-7. MICROSWITCH POSITION (P-717)

4-7-1. START SWITCH

1. Press the START switch.
2. Referring to Fig. 4-11, confirm that there is a 0.3 to 0.5 mm clearance at point A.
3. If the clearance is not as specified, turn the adjustment pin on the starting arm with a screwdriver until the proper clearance is obtained.

4-7-2. STOP SWITCH

1. Set the tonearm on the armrest.
2. Referring to Fig. 4-12, confirm that there is a 0.3 to 0.5 mm clearance at point B. If not, turn the adjustment pin on the return plate with a screwdriver unitl the proper clearance is obtained.

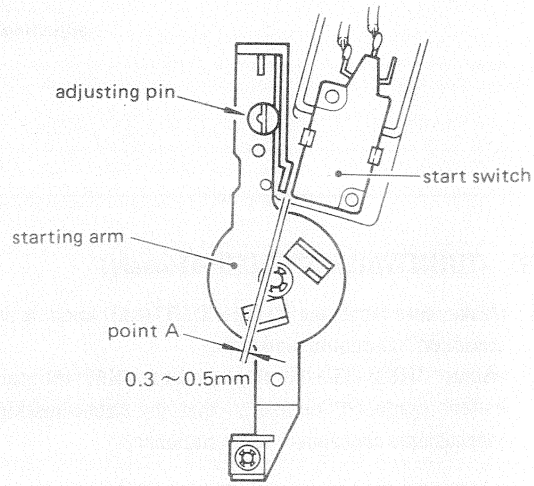


Fig. 4-11

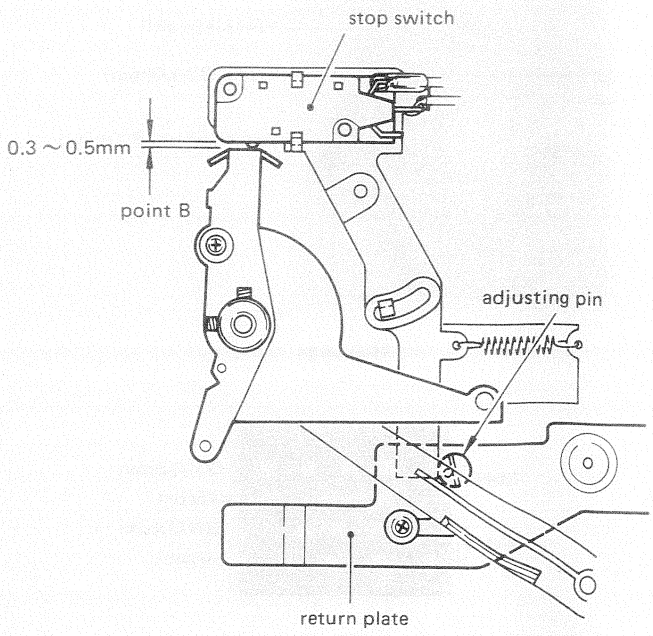


Fig. 4-12

4-8. MICROSWITCH POSITION (P-515)

1. Set the tonearm on the armrest.
2. Referring to Fig. 4-13, confirm that there is a 0.3 to 0.5 mm clearance at point C. If not, turn the adjusting screw until the proper clearance is obtained.

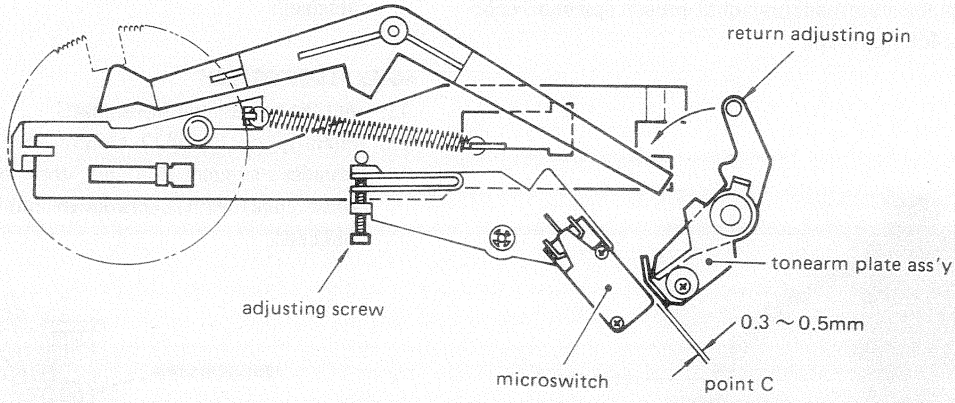


Fig. 4-13

4-9. TURNTABLE SPEED (P-515 only)

1. Make sure that the PITCH CONT(rol) knob is in the "no variation" (midpoint) position.
2. Adjust VR33 (33-1/3 rpm) and/or VR45 (45 rpm) on the motor control PC board so that the strobe markings on the appropriate row appear to be stationary.

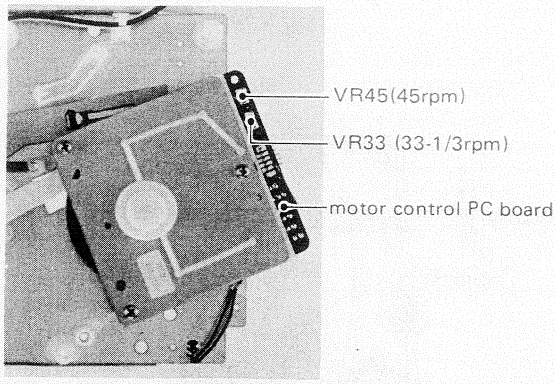
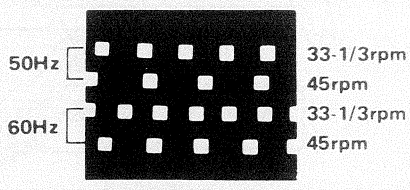


Fig. 4-14



Strobe markings on the outer rim of the P515 platter.

Fig. 4-15

4-10. FRICTIONAL SHAFT HEIGHT (P-717)

1. Remove the turntable platter and unlock the tonearm from the armrest.
2. Turn the drive gear counterclockwise about 120 degrees (Fig. 4-16).
3. Referring to Fig. 4-17, loosen the nut holding the seesaw shaft and turn the shaft until a 1 to 1.5 mm clearance is obtained at point D.
4. Retighten the nut and apply lock paint.

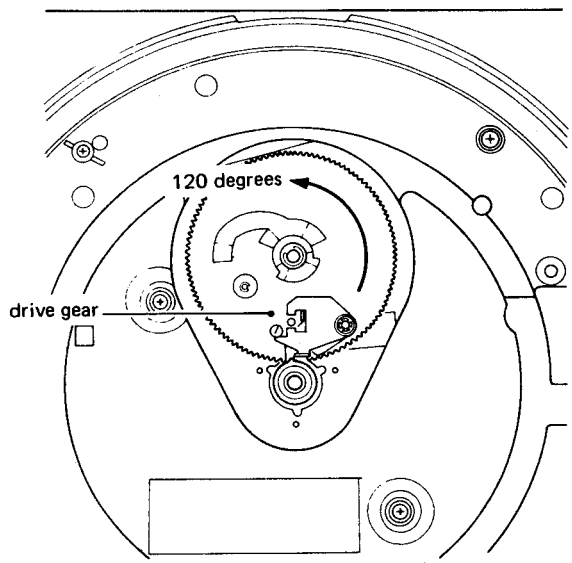
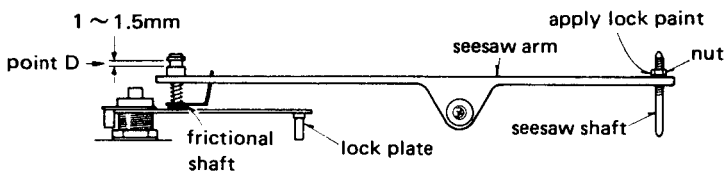


Fig. 4-16



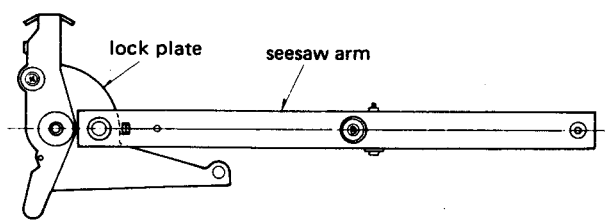


Fig. 4-17

4-11. VOLTAGE SETTING (GENERAL EXPORT MODELS ONLY)

WARNING: Disconnect the power cord from the AC power outlet before making this adjustment.

Using a screwdriver of appropriate size, turn the screw until the voltage indicator matches the voltage of your area.

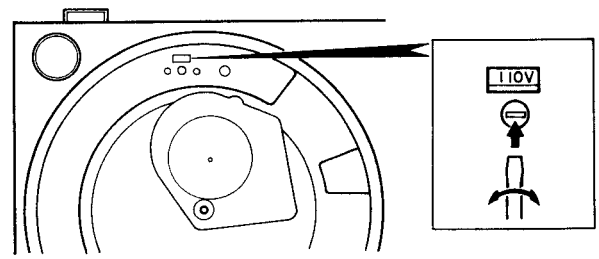


Fig. 4-18

5 MECHANICAL DESCRIPTION

5-1. AUTO LEAD-IN – AUTO RETURN (or Stop function) OPERATION (P-717)

1. Pressing the START button commences record play operation (Fig. 5-1).
2. The start rod activates the starting arm, which moves the drive arm and repeat arm. The start switch turns on, providing power and setting the motor in motion (Fig. 5-1).

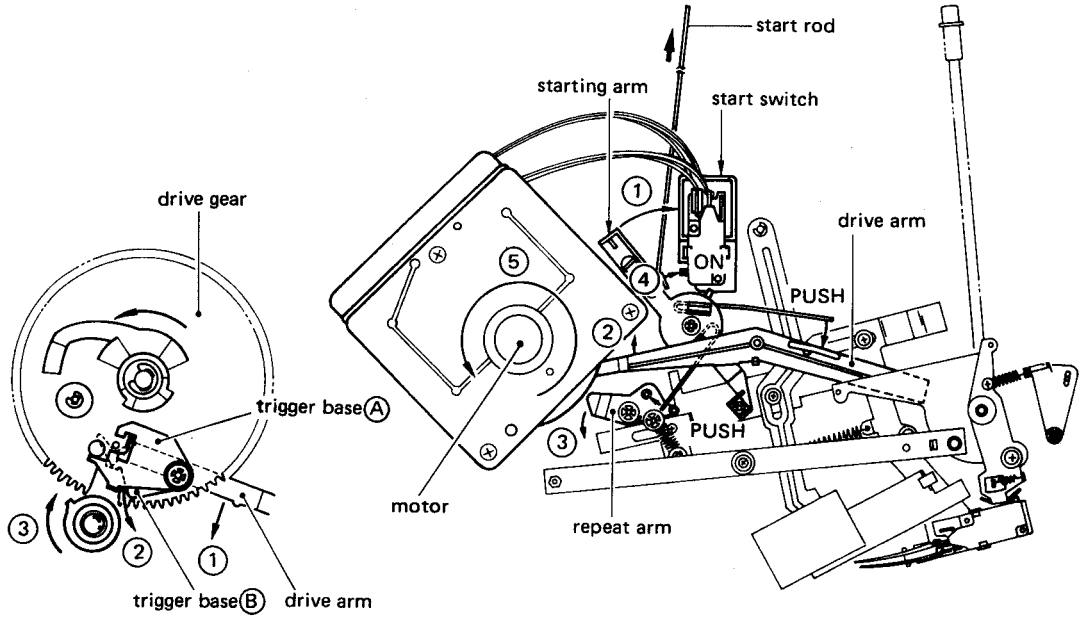


Fig. 5-1

3. The drive arm action pushes trigger base A/B towards the outside, so that it comes into contact with the turntable gear hook, transmitting motor rotation to the dirve gear.
The repeat arm moves the lead in base.

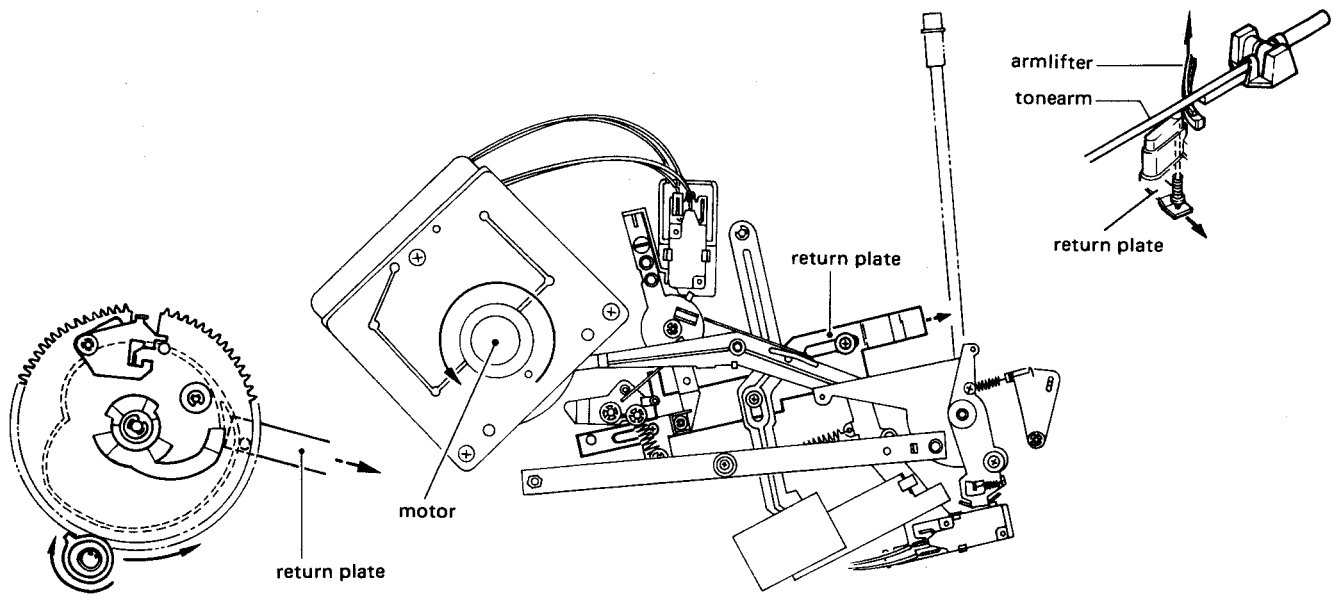


Fig. 5-2

4. The return plate starts to slide, pushing up the armlifter and thus raising the tonearm.
5. The seesaw arm touches the tonearm plate ass'y, sliding it and leading in the tonearm.

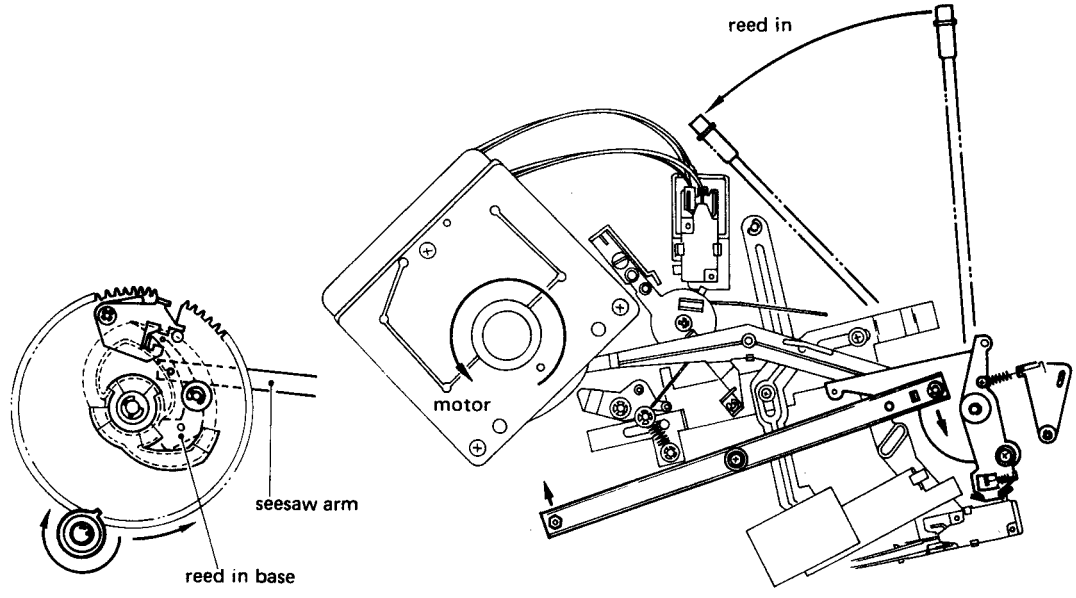


Fig. 5-3

6. After playing the record, the needle enters the last groove and the tonearm plate ass'y moves the drive arm. If the STOP button is pressed while a record is being played, it is the stop arm which moves the drive arm. In both cases, trigger base A/B is pushed towards the outside by the drive arm.
7. As explained in 3, the drive gear starts to rotate.
8. The sliding of the return plate pushes up the arm lifter, raising the tonearm.

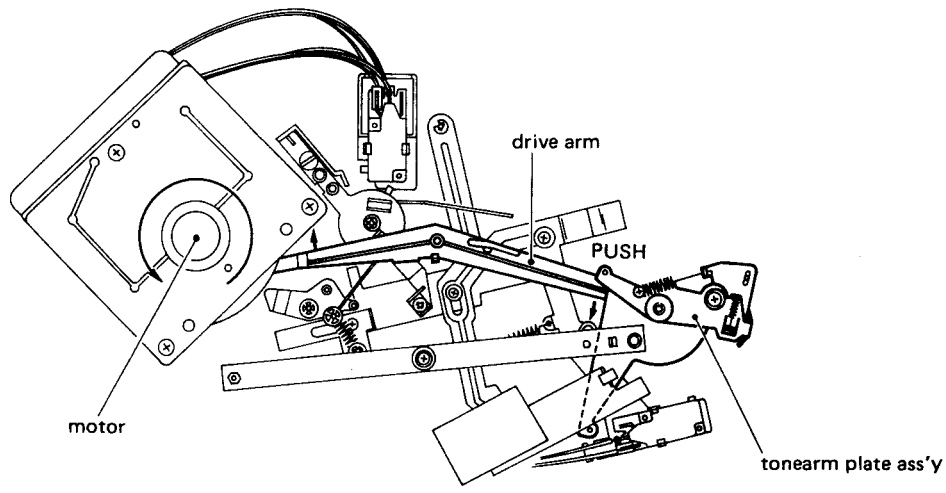


Fig. 5-4

9. The seesaw arm also moves, contacting the tonearm plate ass'y and returning the tonearm to the armrest.
10. The stop switch is turned off, removing power. The motor stops rotating.

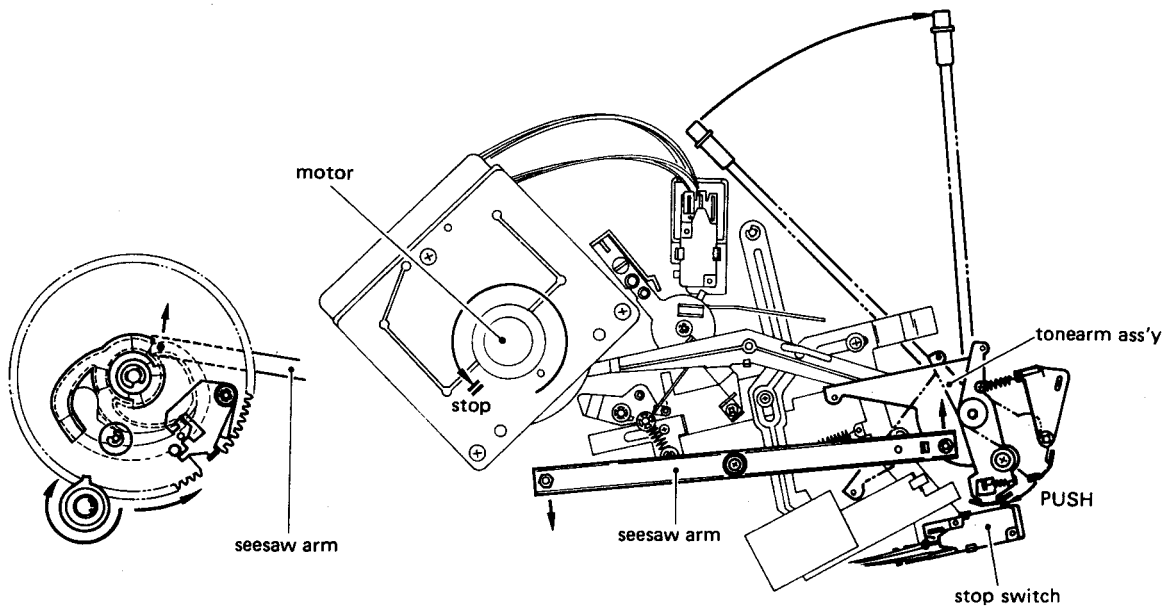
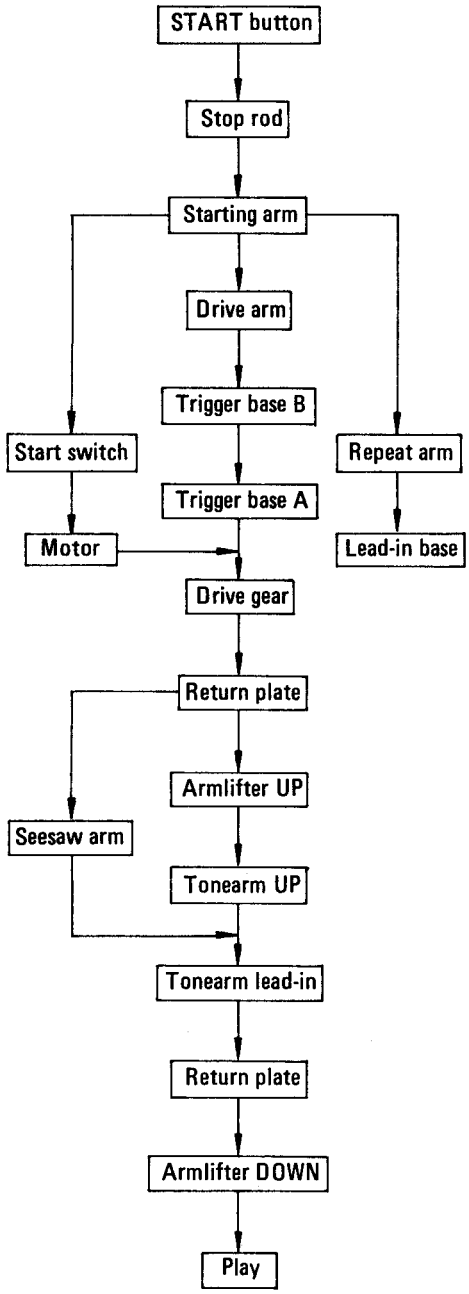
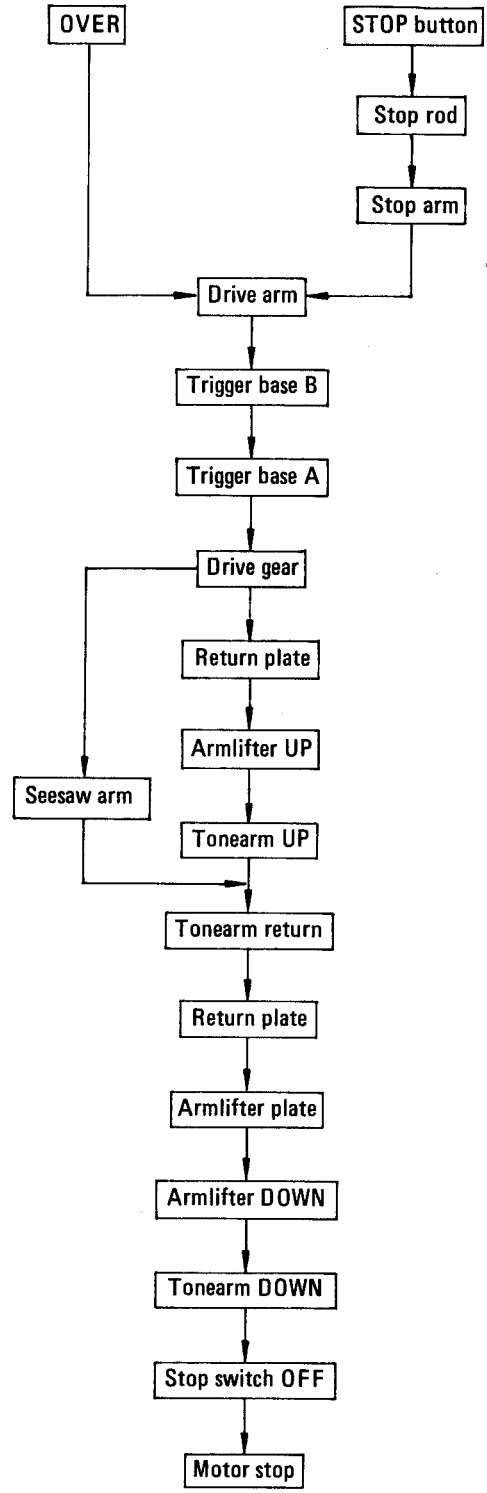


Fig. 5-5

AUTO LEAD-IN OPERATION



AUTO RETURN (or stop function) OPERATION



5-2. AUTO RETURN OPERATION (P-515)

1. The pin on the tonearm plate ass'y forces the drive arm forward when the stylus tip approaches the final groove of the record.
2. At the same time, the opposite end of the drive arm pushes trigger base B in the direction of the arrow and this causes trigger base A to move together with trigger base B in that direction.
3. Then, when the stylus tip enters the final roughpitch groove of the record and the pawl of trigger base A engages with that of the turntable gear, the drive gear cycle starts.
4. The return plate is moved by the rotation of the drive gear, and the spindle is lifted by the angle of the return plate to lift the tonearm from the record surface.
5. The return plate moves to press against the tonearm plate ass'y and the tonearm returns to the tonearm rest.
6. The drive gear continues turning until the return plate return to its starting position and the micro-switch is turned off, causing the motor to stop rotating and the turntable to stop.

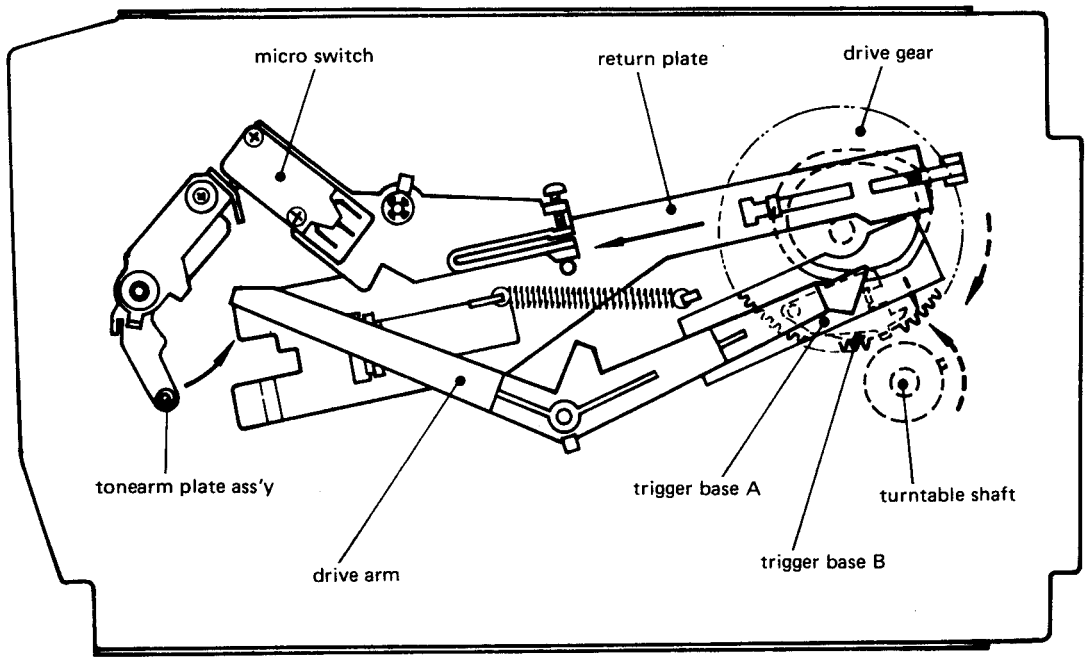
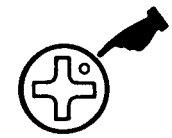


Fig. 5-6

ASSEMBLING HARDWARE CODING LIST

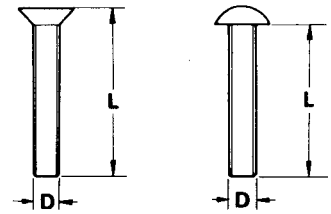
All screws conform to ISO standards, and have crossrecessed heads, unless otherwise noted.
ISO screws have the head inscribed with a point as in the figure to the right.



FOR EXAMPLE:

B M 3 x 6

- Length in mm (L)
- Diameter in mm (D) *
- Metric System
- Nomenclature



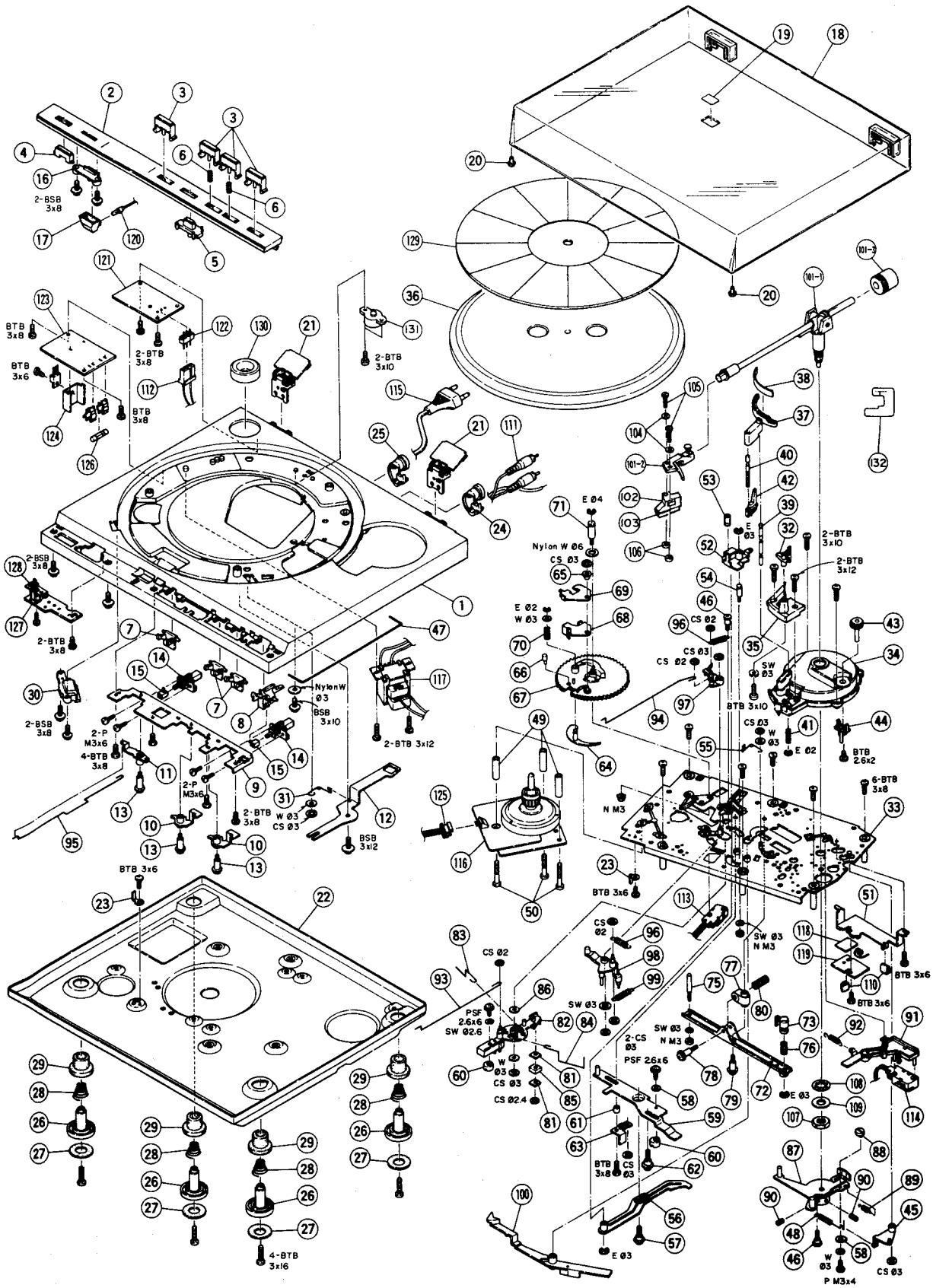
* Inner dia. for washers and nuts

	Code	Name	Type
MACHINE SCREW	R	Round Head Screw	
	P	Pan Head Screw	
	T	Stove Head Screw (Truss)	
	B	Binding Head Screw	
	F	Flat Countersunk Head Screw	
	O	Oval Countersunk Head Screw	
WOOD SCREW	RW	Round Head Wood Screw	
TAPTITE SCREW	PTT	Pan Head Taptite Screw	
	WTT	Washer Head Taptite Screw	
SEMS SCREW	BSA	Binding Head SEMS Screw(A Type)	
	BSB	Binding Head SEMS Screw(B Type)	
	BSF	Binding Head SEMS Screw(F Type)	
	PSA	Pan Head SEMS Screw(A Type)	
	PSB	Pan Head SEMS Screw(B Type)	

	Code	Name	Type
TAPPING SCREW	BTA	Binding Head Tapping Screw(A Type)	
	BTB	Binding Head Tapping Screw(B Type)	
	RTA	Round Head Tapping Screw(A Type)	
	RTB	Round Head Tapping Screw(B Type)	
SETSCREW	SF	Hex Socket Setscrew(Flat Point)	
	SC	Hex Socket Setscrew(Cup Point)	
	SS	Slotted Socket Setscrew(Flat Point)	
WASHER	E	E-Ring (Retaining Washer)	
	W	Flat Washer (Plain)	
	SW	Lock Washer (Spring)	
	LWI	Lock Washer (Internal Teeth)	
	LWE	Lock Washer (External Teeth)	
	TW	Trim Washer (Countersunk)	
NUT	N	Hex Nut	

6 EXPLODED VIEWS AND PARTS LIST

EXPLODED VIEW-1 (P-717)



REF. NO.	PARTS NO.	DESCRIPTION	COMMON MODELS	REMARKS
1	*5760517600	Cabinet		
2	*5760528600	Panel, Front		
3	5760517900	Knob		
4	5760518000	Knob, SPEED		
5	5760528700	Knob, SIZE		
6	5760518200	Spring, Stop/Start Knob		
7	5760518300	Hinge		
8	5760518400	Hinge, Cueing Knob		
9	*5760518500	Angle, Mount		
10	*5760528600	Arm, Stop/Start		
11	*5760528700	Arm, Repeat		
12	*5760528900	Arm, Size		
13	*5760518700	Shaft		
14	5760518800	Switch, Push; Cueing/Repeat		
15	*5760518900	Pin		
16	*5760529000	Screen		
17	*5760529100	Bushing		
18	5760519000	Lid, Dust Cover		
19	5760031000	Plate, Name		
20	5760519100	Cushion		
21	5760519200	Hinge		
22	*5760519300	Cover, Bottom		
23	*5760148900	Lug, Terminal		
24	*5760519400	Bushing, Pin Cord		
25	⚠*5800136400	Bushing, Power Cord [GE]		
	⚠*5800136500	Bushing, Power Cord [E, UK, A]		
26	5760519500	Foot		
27	5760519600	Felt		
28	5760519700	Spring		
29	5760519800	Cushion		
30	*5760529200	Filter		
31	5760529300	Spring, Size; Arm		
32	5760520100	Armrest Assy		
33	*5760529400	Chassis Assy, Main		
34	*5760520300	Base, Pick up		
35	*5760520400	Armrest		
36	*5760529500	Turntable		
37	*5760021300	Arm, Support		
38	*5760520500	Cushion		
39	*5760529600	Spindle, Lifter		
40	*5760520700	Screw, Adjust		
41	5760529700	Spring		
42	*5760520900	Actuator		
43	5760521000	Knob, IFC		
44	*5760521100	Holder, IFC		
45	*5760521200	Arm		
46	*5760530000	Screw, Shoulder		
47	*5760521400	Rod		
48	5760529800	Spring [E]		
	5760529900	Spring [GE, UK, A]		
49	*5760532800	Spacer, Motor		
50		Screw, Pan Head M4 x 35		
51	*5760530100	Angle, Mount		
52	*5760530200	Lever Assy, Set		
53		Tube		
54	*5760530300	Shaft		
55	5760530400	Spring		
56	*5760180400	Lever Assy, Set		
57	*5760024800	Screw, Shoulder		
58		Washer, Wave		
59	*5760530600	Lever Assy, Set		

Parts marked with *require longer delivery time.

[GE] : GENERAL EXPORT
[UK] : U.K.
[E] : EUROPE
[A] : AUSTRALIA

REF. NO.	PART NO.	DESCRIPTION	COMMON MODLES	REMARKS
60	5760020700	Cam		
61	*5760530700	Spacer		
62	*5760173200	Screw, Shoulder		
63	*5760015900	Plate		
64	*5760180300	Cam Assy, Drive		
65	*5760017700	Collar		
66	*5760017800	Pin		
67	*5760180200	Gear, Drive		
68	*5760017500	Trigger		
69	*5760017600	Trigger		
70	*5760530800	Spring		
71	*5760015300	Shaft		
72	*5760180800	Lever Assy, Set		
73	*5760180900	Shaft Assy, Elevator		
74		Not used		
75	*5760019600	Shaft		
76	5760019500	Spring		
77	5760016400	Bearing		
78	*5760035900	Shaft		
79	*5760035900	Shaft		
80	5760016500	Spring		
81	*5760020600	Washer, Square		
82	*5760531000	Plate		
83	*5760531100	Rod		
84	*5760531200	Rod		
85	5760020500	Magnet		
86	*5760531300	Cushion		
87	*5760531500	Lock Plate Assy, PU		
88	*5760020900	Cam		
89	5760021000	Spring		
90		Setscrew, Hex Socket M4 x 5		
91	*5760532000	Plate, Switch		
92	5760531600	Spring		
93	*5760531700	Rod		
94	*5760531800	Rod		
95	*5760531900	Rod		
96	5760522200	Spring		
97	*5760532100	Lever		
98	*5760532200	Lever		
99	5760532300	Spring		
100	*5760016600	Arm, Return		
101 - 1	5760533800	Tonearm Assy		
101 - 2	5760525300	Headshell Assy		
101 - 3	5760525200	Weight Assy, Main		
102	5760525400	Cartridge [GE, E, A]		
103	5772908900	Stylus		
104	*5760525700	Washer [GE, E, A]		
105	*5760525500	Screw [GE, E, A]		
106	*5760525600	Nut [GE, E, A]		
107	*5760037700	Nut, M12		
108	*5760111200	Washer, Lock; ϕ12		
109	*5760037800	Washer, ϕ12		
110	*5760521500	Cushion		
111	5760174100	Cord Assy, Pin		
112	5760532500	Cord Assy		
113	⚠ 5760174400	Microswitch [GE, UK, A]		
	⚠ 5760532600	Microswitch [E]		
114	⚠ 5760523300	Microswitch [GE, UK, A]		
	⚠ 5760523200	Microswitch [E]		
115	⚠ 5760029300	AC Power Cord [GE]		
	⚠ 5760029400	AC Power Cord [E]		
	⚠ 5760029500	AC Power Cord [UK]		
	⚠ 5760175000	AC Power Cord [A]		

Parts marked with *require longer delivery time.

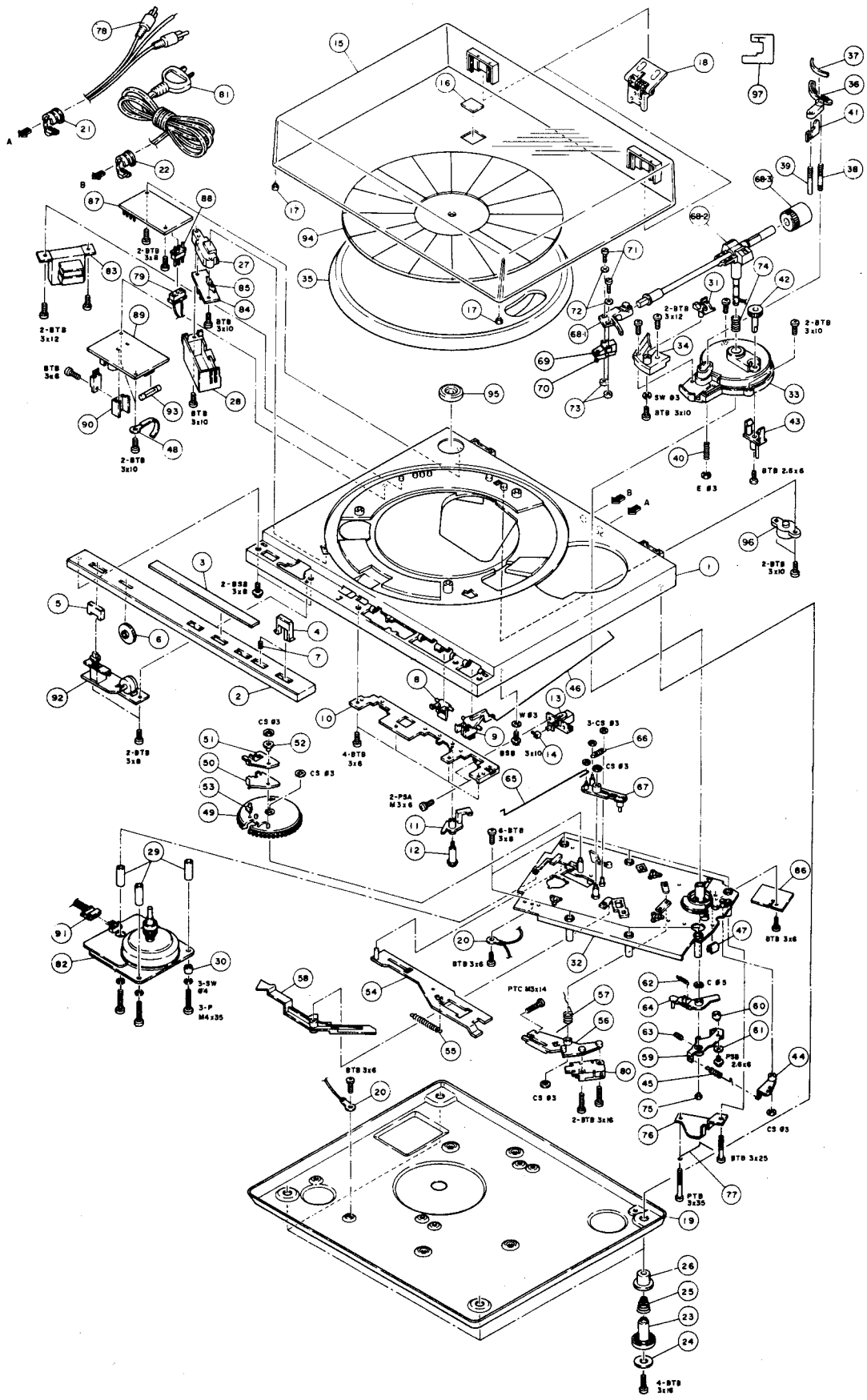
[GE] : GENERAL EXPORT
[UK] : U.K.
[E] : EUROPE
[A] : AUSTRALIA

REF. NO.	PARTS NO.	DESCRIPTION	COMMON MODELS	REMARKS
116	5760532700	Motor Assy		
117	⚠ 5760523700	Power Transformer [GE]		
	⚠ 5760523800	Power Transformer [E]		
	⚠ 5760523900	Power Transformer [UK, A]		
118	*5760533300	Cover, Shield		
119	*5760524100	PCB Assy, PHONO		
120	5760533400	Lamp, Pilot		
121	*5760533500	PCB Assy, POWER [GE]		
	*5760533510	PCB Assy, POWER [E]		
	*5760533520	PCB Assy, POWER [UK, A]		
122	*5760526100	Connector Plug, 3P		
123	*5760533600	PCB Assy, DC POWER [GE]		
	*5760533610	PCB Assy, DC POWER [E, UK, A]		
124	*5760526600	Heatsink		
125	*5760526400	Card Ass'y		
126	⚠ 5142162000	Fuse [E]		
127	*5760533700	PCB Assy, CONTROL		
128	5760526900	Switch, Push; Speed		
129	*5760025900	Mat, Turntable		
130	5760034500	Adapter, 45rpm		
131	⚠ 5760524200	Selector, Voltage [GE]		
132	5760537700	Gauge, Stylus		

Parts marked with *require longer delivery time.

[GE] : GENERAL EXPORT
[UK] : U.K.
[E] : EUROPE
[A] : AUSTRALIA

EXPLODED VIEW-2 (P-515)



REF. NO.	PARTS NO.	DESCRIPTION	COMMON MODELS	REMARKS
1	*5760517600	Cabinet		
2	*5760517700	Panel, Front		
3	*5760517800	Panel		
4	5760517900	Knob		
5	5760518000	Knob, SPEED		
6	5760518100	Knob, PITCH CONT		
7	5760518200	Spring		
8	5760518300	Hinge		
9	5760518400	Hinge, Cueing Knob		
10	*5760518500	Angle, Mount		
11	*5760518600	Arm		
12	*5760518700	Shaft		
13	5760518800	Switch, Push; Power		
14	*5760518900	Pin		
15	5760519000	Lid, Dust Cover		
16	5760031000	Plate, Name		
17	5760519100	Cushion		
18	5760519200	Hinge		
19	*5760519300	Cover, Bottom		
20	*5760148900	Lug, Terminal		
21	*5760519400	Bushing, Pin Cord		
22	⚠ *5760136400	Bushing, Power Cord [GE]		
	⚠ *5760136500	Bushing, Power Cord [E, UK, A]		
23	5760519500	Foot		
24	5760519600	Felt		
25	5760519700	Spring		
26	5760519800	Cushion		
27	*5760519900	Filter		
28	*5760520000	Cover		
29	*5760523500	Spacer, Motor		
30	*5760523600	Spacer		
31	5760520100	Armrest Assy		
32	*5760520200	Chassis Assy, Main		
33	*5760520300	Base, Pick up		
34	*5760520400	Armrest		
35	*5760025800	Turntable		
36	*5760021300	Arm, Support		
37	*5760520500	Cushion		
38	*5760520600	Spindle, Lifter		
39	*5760520700	Screw, Adjust		
40	5760520800	Spring		
41	5760520900	Actuator		
42	5760521000	Knob, IFC		
43	*5760521100	Holder, IFC		
44	*5760521200	Arm		
45	5760521300	Spring		
46	*5760521400	Rod		
47	*5760521500	Cushion		
48	*5760183800	Clamper, Cord		
49	*5760149900	Gear, Drive		
50	*5760521600	Trigger		
51	*5760170300	Trigger		
52	*5760170400	Collar		
53	*5760521700	Pin		
54	*5760521800	Plate Assy, Return		
55	5760170900	Spring		
56	*5760171000	Plate, Switch		
57	*5760521900	Spring		
58	*5760171100	Arm, Return		
59	*5760522000	Lock Plate Assy, PU		

Parts marked with *require longer delivery time.

[GE] : GENERAL EXPORT
[UK] : U.K.
[E] : EUROPE
[A] : AUSTRALIA

REF. NO.	PARTS NO.	DESCRIPTION	COMMON MODELS	REMARKS
60	5760171700	Cam		
61		Washer, Wave		
62	5760171500	Spring		
63		Setscrew, Hex Socket M4 x 5		
64	*5760171400	Lever		
65	*5760522100	Rod		
66	5760522200	Spring		
67	*5760522300	Arm		
68 - 1	5760525300	Headshell Assy		
68 - 2	5760525100	Tonearm Assy		
68 - 3	5760525200	Weight Assy, Main		
69	5760525400	Cartridge		
70	5772908900	Stylus		
71	*5760525500	Screw		
72	*5760525700	Washer		
73	*5760525600	Nut		
74	*5760522500	Spacer		
75	*5760522600	Shaft, Support		
76	*5760522800	Angle, Mount		
77	*5760522900	Cramp, Wire		
78	5760174100	Cord Assy, Pin		
79	5760523000	Cord Assy [E, UK, A]		
	5760523100	Cord Assy [GE]		
80	⚠ 5760523200	Microswitch [E]		
	⚠ 5760523300	Microswitch [GE, UK, A]		
81	⚠ 5760029300	AC Power Cord [GE]		
	⚠ 5760029400	AC Power Cord [E]		
	⚠ 5760029500	AC Power Cord [UK]		
	⚠ 5760175000	AC Power Cord [A]		
82	5760523400	Motor Assy		
83	⚠ 5760523700	Power Transformer [GE]		
	⚠ 5760523800	Power Transformer [E]		
	⚠ 5760523900	Power Transformer [UK, A]		
84	*5760524000	PCB Assy, NEON LAMP		
85	5760525900	Neon Lamp		
86	*5760524100	PCB Assy, PHONO		
87	*5760524800	PCB Assy, POWER [GE]		
	*5760524810	PCB Assy, POWER [E]		
	*5760524820	PCB Assy, POWER [UK, A]		
88	*5760526100	Connector Plug, 3P		
89	*5760524900	PCB Assy, DC POWER [GE]		
	*5760524910	PCB Assy, DC POWER [E, UK, A]		
90	*5760526600	Heatsink		
91	*5760526400	Cord Assy		
92	*5760525000	PCB Assy, CONTROL		
93	⚠ 5142162000	Fuse [E]		
94	*5760025900	Mat, Turntable		
95	5760034500	Adapter, 45rpm		
96	⚠ 5760524200	Selector, Voltage [GE]		
97	5760527700	Gauge, Stylus		

Parts marked with *require longer delivery time.

[GE] : GENERAL EXPORT
[UK] : U.K.
[E] : EUROPE
[A] : AUSTRALIA

POWER PCB ASSY (P-717)

REF. NO.	PARTS NO.	DESCRIPTION
	5760533500	PCB Assy [GE]
	5760533510	PCB Assy [E]
	5760533520	PCB Assy [UK, A]
	5760526000	PCB
		CAPACITORS
C1	⚠ 5760526200	Poly. 0.01μF 630V 20% [GE]
	⚠ 5267703100	Mylar 0.01μF 250V 20% [E, UK, A]
		MISCELLANEOUS
	5760526100	Connector Plug, 3P
	5760184700	Tube, UL [GE]

DC POWER PCB ASSY (P-717)

REF. NO.	PARTS NO.	DESCRIPTION
	5760533600	PCB Assy [GE]
	5760533610	PCB Assy [E, UK, A]
	5760526300	PCB
		TRANSISTOR
Q1	⚠ 5042528000	2SD330D
		DIODES
D1	⚠ 5760035300	DGG-W02
D2	5760526500	GZA-20R, Zener
		RESISTORS
R3	5181474000	470Ω ¼W Carbon
R4	5181474000	470Ω ¼W Carbon
R5	5181486000	1.5kΩ ¼W Carbon
		CAPACITORS
C3	5055462000	Elec. 470μF 35V
C4	5055452000	Elec. 47μF 35V [GE]
	5055449800	Elec. 47μF 25V [E, UK, A]
		MISCELLANEOUS
	5760526600	Heatsink
	5760174600	Screw, BTB M3 x 6
	5760027800	Socket, Fuse [E]
	⚠ 5142162000	Fuse [E]

CONTROL PCB ASSY (P-717)

REF. NO.	PARTS NO.	DESCRIPTION
	5760533700	PCB Assy
	5760526700	PCB
SW3	5760526900	Switch, Push

NEON LAMP PCB ASSY (P-515)

REF. NO.	PARTS NO.	DESCRIPTION
	5760524000	PCB Assy
	5760525800	PCB
	5760525900	Lamp, Neon

POWER PCB ASSY (P-515)

REF. NO.	PARTS NO.	DESCRIPTION
	5760524800	PCB Assy [GE]
	5760524810	PCB Assy [E]
	5760524820	PCB Assy [UK, A]
	5760526000	PCB
		RESISTORS
R1	⚠ 5241207400	10kΩ 1W, Metal Film [GE]
	⚠ 5760534900	33kΩ 2W, Metal Film [E, UK, A]
		CAPACITORS
C1	⚠ 5760526200	Poly. 0.01μF 630V 20% [GE]
	⚠ 5267703100	Mylar 0.01μF 250V 20% [E, UK, A]
		MISCELLANEOUS
	5760526100	Connector Plug, 3P
	5760184700	Tube, UL [GE]

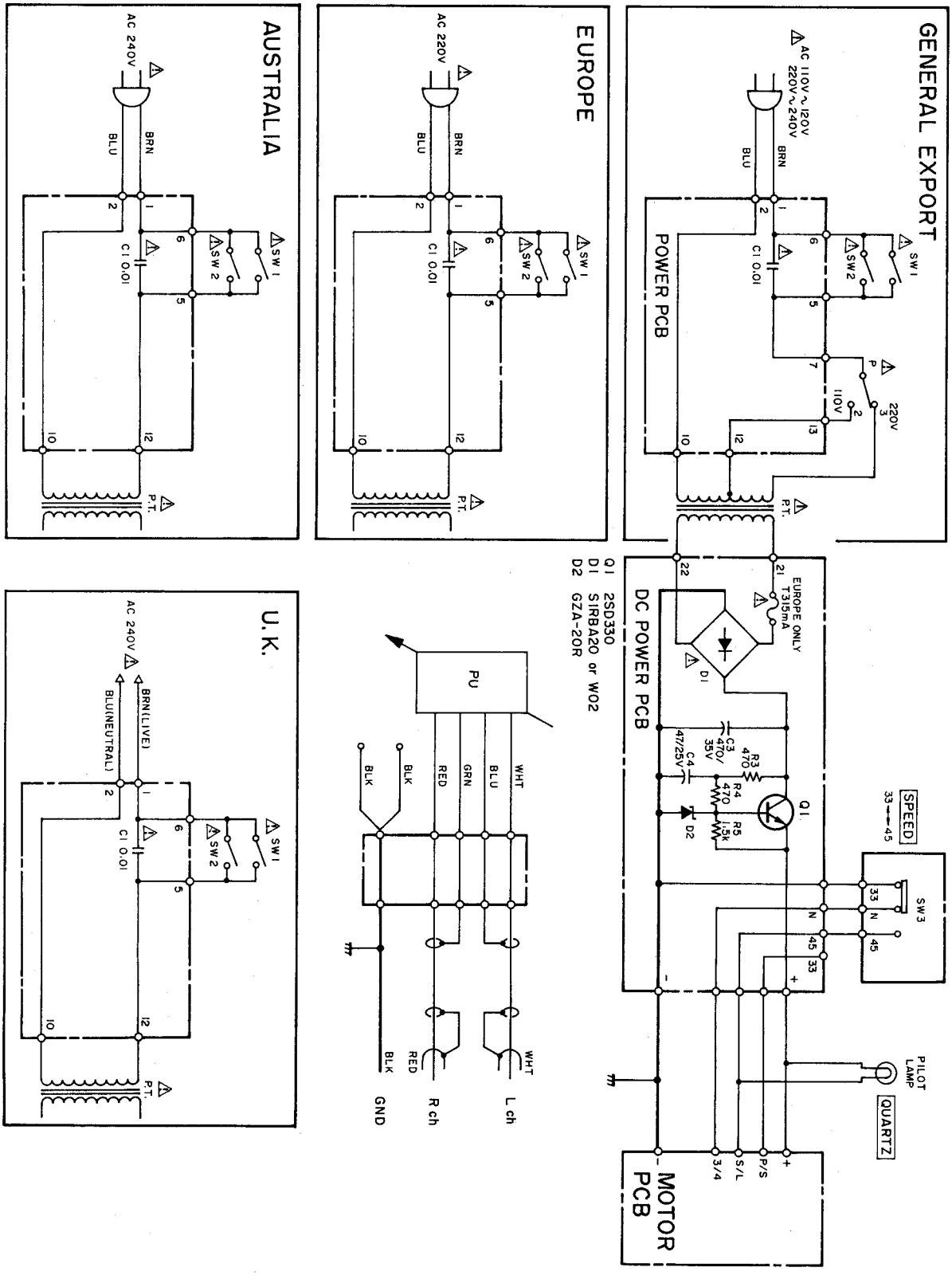
DC POWER PCB ASSY (P-515)

REF. NO.	PARTS NO.	DESCRIPTION
	5760524900	PCB Assy [GE]
	5760524910	PCB Assy [E, UK, A]
	5760526300	PCB
		TRANSISTOR
Q1	⚠ 5042528000	2SD330D
		DIODES
D1	⚠ 5760035300	DGG-W02
D2	5760526500	GZA-20R, Zener
		RESISTORS
R3	5181474000	470Ω ¼W Carbon
R4	5181474000	470Ω ¼W Carbon
R5	5181486000	1.5kΩ ¼W Carbon
		CAPACITORS
C3	5055462000	Elec. 470μF 35V
C4	5055452000	Elec. 47μF 35V [GE]
	5055449800	Elec. 47μF 25V [E, UK, A]
		MISCELLANEOUS
	5760526600	Heatsink
	5760174600	Screw, BTB M3 x 6
	5760027800	Socket, Fuse [E]
	⚠ 5142162000	Fuse [E]

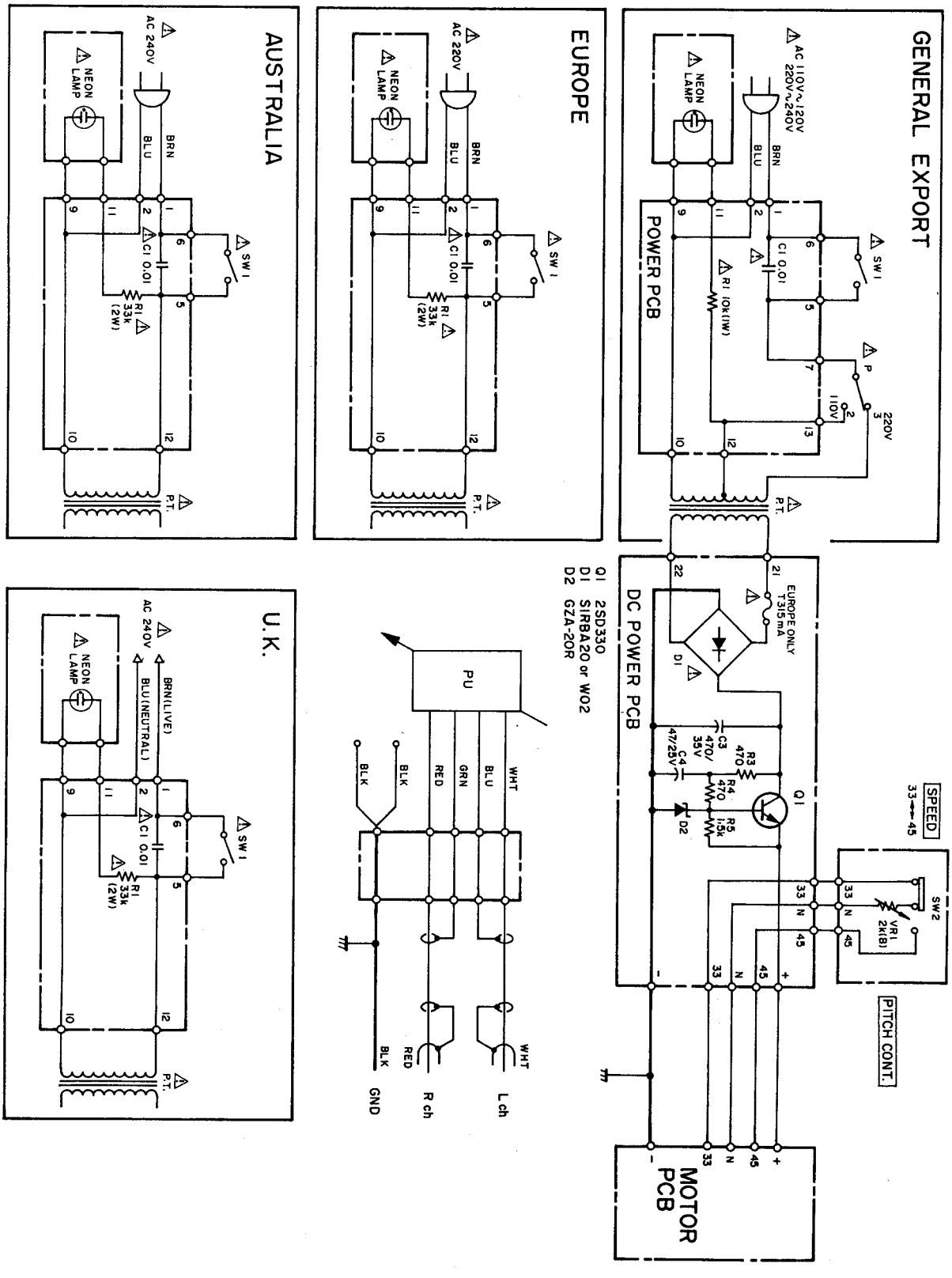
CONTROL PCB ASSY (P-515)

REF. NO.	PARTS NO.	DESCRIPTION
	5760525000	PCB Assy
	5760526700	PCB
VR1	5760526800	Semi-fixed 2kΩ(B)
SW2	5760526900	Switch, Push

P-717 SCHEMATIC DIAGRAM



P-515 SCHEMATIC DIAGRAMS



P-717/P-515

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